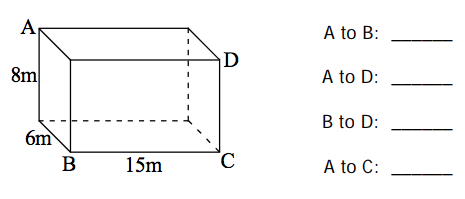
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1. Find the shortest distance between each pair of points listed for the diagram below. Simplify Radical Answers



2. Mary and Benjamin are driving to their friend Paul’s house for a birthday party. Mary drives nine miles north and six miles east to get there, while Benjamin drives three miles south and 7 miles west. How far does Mary live from Benjamin?

3. Patrick is standing in the middle of a large field throwing baseballs. He throws the first ball 20 yards straight out. He turns 90 degrees to the right an throws a second ball 23 yards straight out. He turns 90 degrees to the right again and throws a third ball 45 yards (straight out again). What is the shortest distance he can walk to retrieve all three balls (he does not need to return to his original spot).

4. Salemburg is 17 miles south of Linbrooke, and Linbrooke is 5 miles west of Pueblo. Carson lives nine miles north of Linbrooke. How many miles will Carson have to drive altogether from his home to Salemburg if he stops in Pueblo on the way?

5. Find the shaded area of the figure below if the circles radius is 4 cm and ABC is a right triangle with AB = 6cm

